

IN THE CLAIMS

1. (Currently Amended) Process for preparing a melt, especially a plastic melt, with a device (2) for supplying material components to a unit (3) for plasticizing the components, where at least one cleaning unit (4) for the melt passing through, especially a rotating screen disk (5), and at least one sensor unit (17, 18, 19, 20, 21) for detecting one or more process parameters are provided, by means of which parameters and in the knowledge of the filter-specific process data the work of the cleaning unit (4) can be influenced, ~~characterized in that,~~ wherein, on the basis of the determined (17, 18, 19, 20, 21) process parameters and/or the filter-specific process data, the process materials being supplied by the feed device (2) can be controlled at least with respect to type and metering rate.

2. (Currently Amended) Process according to Claim 1, ~~characterized in that~~ wherein the processing parameters of the process materials are controlled on the basis of the determined (17, 18, 19, 20, 21) process parameters and/or the filter-specific process data.

3. (Currently Amended) Process according to ~~Claim 1 or Claim 2, characterized in that~~ Claim 1, wherein the process parameters of a further-processing unit downstream from the cleaning unit (4), especially a chopper, a valve of a plastic processing machine, or the like, are controlled on the basis of determined (17, 18, 19, 20, 21) process parameters and/or the filter-specific process data.

4. (Currently Amended) Process according to ~~one of Claims 1-3, characterized in that~~ Claim 1, wherein the cleaning unit (4) and the feed unit (2) are controlled on the basis of the data in an interdependent manner.

5. (Currently Amended) Process according to ~~Claim 3 or Claim 5, characterized in that~~ Claim 3, wherein the cleaning unit (4) and the process parameters are controlled on the basis of the data in an interdependent manner.

6. (Currently Amended) Process according to ~~one of Claims 1-5, characterized in that,~~ Claim 1, wherein, on the basis of the determined process parameters and/or the filter-specific process data, information can be generated for quality management (28) and/or purchasing

7. (Currently Amended) Device (1) for implementing the process according to ~~one of Claims 1-6~~, Claim 1, with a feed device (2) for material components connected to a plasticizing unit (3), where the device (1) has at least one cleaning unit (4) for the melt passing through, especially a rotating screen disk (5), and at least one sensor unit (17, 18, 19, 20, 21) for detecting one or more process parameters, by means of which parameter and in the knowledge of the filter-specific process data the work of the cleaning unit (4) can be influenced, ~~characterized in that~~ wherein a process control unit (23) is provided, which, on the basis of the determined (17, 18, 19, 20, 21) process parameters and/or the filter-specific process data, controls the feed unit (2) at least with respect to the type and metering rate of the process materials being supplied.

8. (Currently Amended) Device (1) according to Claim 7, ~~characterized in that~~, wherein, on the basis of determined (17, 18, 19, 20, 21) process parameters and/or the filter-specific process data, the process control unit (23) controls the process parameters (29) of a further-processing unit downline from the cleaning unit (4), especially a chopper, a valve of a plastic processing machine, or the like.